Journal of **Clinical Epidemiology**

Volume 47, 1994

List of Contents and Author Index

PERGAMON PRESS

Journal of **Clinical Epidemiology**

Including **Pharmacoepidemiology Reports**

Editors

WALTER O. SPITZER
Potsdam, Germany
Strathcona Professor, Department of Epidemiology & Biostatistics
Professor, Department of Medicine,
Director, McGill/Potsdam Institute of Pharmacoepidemiology and Technology Assessment
McGill University Faculty of Medicine

ALVAN R. FEINSTEIN
New Haven, CT
Sterling Professor, Departments of Medicine and Epidemiology. Director, Clinical Epidemiology Unit
Yale University School of Medicine

Associate Editor

JAN P. VANDENBROUCKE
Leiden, The Netherlands
Professor of Clinical Epidemiology
University of Leiden, The Netherlands

Editors Emeritus for Journal of Chronic Diseases

DAVID P. EARLE
Chicago, IL

LOUIS LASAGNA
Boston, MA

Policy Advisory Board

PAUL B. BEESON
Redmond, WA

BERNARD BÉGAUD
Bordeaux Cedex, France

PETER BURNEY
London, England

LEIGHTON E. CLUFF
Gainesville, FL

SERGIO ERILL
Barcelona, Spain

JAMES E. GRIZZLE
Seattle, WA

IRENE GUGGENMOOS-HOLZMANN
Berlin, Germany

OLLI P. HEINONEN
Helsinki, Finland

MICHEL A. IBRAHIM
Chapel Hill, NC

LOUIS LASAGNA
Boston, MA

ROBERT G. PETERSDORF
Washington, DC

DAVID L. SACKETT
Hamilton, Ontario

BENEDETTO TERRACINI
Torino, Italy

Editorial Consultants Board

RENALDO N. BATTISTA
Montreal, Quebec

JOHN W. BERG
Denver, CO

NATHANIEL I. BERLIN
Miami, FL

NORMAN F. BOYD
Toronto, Ontario

GEORGE W. BROWN
Albuquerque, NM

RUDOLF BRUPPACHER
Basel, Switzerland

CHARLES C. J. CARPENTER
Providence, RI

MARY E. CHARLSON
New York, NY

RICHARD G. CORNELL
Ann Arbor, MI

ALLAN S. DETSKY
Toronto, Ontario

WILLIAM D. DEWYS
Bethesda, MD

RICHARD DEYO
Seattle, WA

THEODORE C. EICKHOFF
Denver, CO

JOHN M. ESDAILE
Montreal, Quebec

GERALD A. FAICH
Philadelphia, PA

MANNING FEINLEIB
Hyattsville, MD

JOSEPH L. FLEISS
New York, NY

NOBLE O. FOWLER
Cincinnati, OH

LEE GOLDMAN
Boston, MA

EBERHARD M. GREISER
Bremen, Germany

HARRY A. GUESS
Blue Bell, PA and Chapel Hill, NC

GORDON H. GUYATT
Hamilton, Ontario

FRANK E. HARRELL, JR
Durham, NC

GERRY B. HILL
Rockland, Ontario

RALPH I. HORWITZ
New Haven, CT

THOMAS A. HUTCHINSON
Montreal, Quebec

MILOS JENICEK
Montreal, Quebec

ROBERT L. KANE
Minneapolis, MN

WILLIAM B. KANNEL
Boston, MA

STANISLAV V. KASL
New Haven, CT

PAUL KNIPSCHILD
Maastricht, The Netherlands

LENORE KOHLMEIER
Berlin, Germany

MICHAEL S. KRAMER
Montreal, Quebec

LEWIS H. KULLER
Pittsburgh, PA

CALVIN M. KUNIN
Columbus, OH

LAWRENCE L. KUPPER
Chapel Hill, NC

LEONARD T. KURLAND
Rochester, MN

JOHN F. KURTZKE
Washington, DC

VALERIE A. LAWRENCE
San Antonio, TX

STEPHEN R. LEEDER
Westmead, Australia

JACQUES LELORIER
Montreal, Quebec

JOHN M. LEVENTHAL
New Haven, CT

ALEXANDER G. LOGAN
Toronto, Ontario

FREDERICK MOSTELLER
Cambridge, MA

EDMOND A. MURPHY
Baltimore, MD

ALF L. NACHEMSON
Gothenburg, Sweden

ADRIAN M. OSTFELD
New Haven, CT

MIQUEL S. PORTA
Barcelona, Spain

DAVID F. RANSOHOFF
Chapel Hill, NC

ALFRED A. RIMM
Cleveland, OH

BRUCE E. RODDA
New York, NY

RACHID SALMI
Bordeaux Cedex, France

RICHARD B. SHEKELLE
Houston, TX

MARGARET THOROGOOD
London, England

GIANNI TOGNONI
Milano, Italy

HERMAN TYROLER
Chapel Hill, NC

PAOLO VINEIS
Torino, Italy

EDWARD H. WAGNER
Seattle, WA

T. FRANKLIN WILLIAMS
Bethesda, MD

SHARON WOOD-DAUPHINEE
Montreal, Quebec

HENRIK R. WULFF
Herlev, Denmark

Second class postage paid at NEWARK NJ. Postmaster send address corrections to *Journal of Clinical Epidemiology*, c/o Elsevier Science Inc., 660 White Plains Road, Tarrytown, NY 10591-5153, U.S.A.

VOLUME 47

LIST OF CONTENTS

Number 1

Editorial

J. Robert Beck and **Peter T. Scardino** — 1 How useful are models of natural history in clinical decision making and clinical research?

Original Articles

Mark E. Cowen, Michael Chartrand and **William F. Weitzel** — 3 A Markov model of the natural history of prostate cancer

S. Kent, E. D. Weinberg and **P. Stuart-Macadam** — 23 The etiology of the anemia of chronic disease and infection

Donald L. Bliwise, Abby C. King and **Robin B. Harris** — 35 Habitual sleep durations and health in a 50–65 year old population

Klaus Lauer — 43 The risk of multiple sclerosis in the U.S.A. in relation to socio-geographic features: a factor-analytic study

Sergio L. Pinski, James D. Maloney, Elena B. Sgarbossa and **Richard G. Trohman** — 49 Selection bias in electrophysiologically-guided therapy of sustained ventricular tachyarrhythmias

Martin T. Schechter, Robert S. Hogg, Bruce Aylward, Kevin J. P. Craib, Thinh N. Le and **Julio S. G. Montaner** — 59 Higher socioeconomic status is associated with slower progression of HIV infection independent of access to health care

Marja Jylhä — 69 Ten-year change in the use of medical drugs among the elderly—a longitudinal study and cohort comparison

Elizabeth F. Juniper, Gordon H. Guyatt, Andrew Willan and **Lauren E. Griffith** — 81 Determining a minimal important change in a disease-specific Quality of Life Questionnaire

Melissa L. Bondy, Sara S. Strom, Michael W. Colopy, Barry W. Brown and **Louise C. Strong** — 89 Accuracy of family history of cancer obtained through interviews with relatives of patients with childhood sarcoma

Second Thoughts

K. S. Jacob — 97 The quest for the etiology of mental disorders

Kenneth Rockwood — 101 Use of global assessment measures in dementia drug trials

PHARMACOEPIDEMIOLOGY REPORT

Alison D. McDonald — 105 Therapeutic drugs in early pregnancy and congenital defects

Number 2

Original Articles

J. Marrugat, J. M. Antó, J. Sala, R. Masiá and **the REGICOR Investigators** — 111 Influence of gender in acute and long-term cardiac mortality after a first myocardial infarction

Robert Michielutte, Mary Lou Moore, Paul J. Meis, J. M. Ernest and **H. Bradley Wells** — 119 Race differences in infant mortality from endogenous causes: a population-based study in North Carolina

M. Jane Irvine and **Alexander G. Logan** — 131 Is knowing your cholesterol number harmful?

Rossana Bojalil and **Juan J. Calva** — 147 Antibiotic misuse in diarrhea. A household survey in a Mexican community

M. C. Visser, A. E. Fletcher, G. Parr, A. Simpson and **C. J. Bulpitt** 157 A comparison of three quality of life instruments in subjects with angina pectoris: the Sickness Impact Profile, the Nottingham Health Profile, and the Quality of Well Being Scale

Suzanne L. West, Brian L. Strom, Bruce Freundlich, Esther Normand, Gary Koch and **David A. Savitz** 165 Completeness of prescription recording in outpatient medical records from a Health Maintenance Organization

Aaron R. Folsom, Yihe Li, Xuxu Rao, Runchao Cen, Kui Zhang, Xiaoqing Liu, Lin He, Sandra Irving and **Barbara H. Dennis** 173 Body mass, fat distribution and cardiovascular risk factors in a lean population of south China

Tjeerd-Pieter van Staa, Lucien Abenhaim and **Hubert Leufkens** 183 A study of the effects of exposure misclassification due to the time-window design in pharmacoepidemiologic studies

Christian G. Schütz, David Vlahov, James C. Anthony and **Neil M. H Graham** 191 Comparison of self-reported injection frequencies for past 30 days and 6 months among intravenous drug users

Matty P. Weijenberg, Edith J. M. Feskens, Carel H. Bowles and **Daan Kromhout** 197 Serum total cholesterol and systolic blood pressure as risk factors for mortality from ischemic heart disease among elderly men and women

H. Daniel Roth, P. S. Levy, Li Shi and **Ellen Post** 207 Alcoholic beverages and breast cancer: some observations on published case–control studies

Number 3

Variance and Dissent

Ernst L. Wynder, Leonard A. Cohen, David P. Rose and **Steven D. Stellman** 217 Presentation: Dietary fat and breast cancer: where do we stand on the evidence?

Walter Willett 223 Dissent: Response to Wynder *et al.*'s paper on dietary fat and breast cancer

Ernst L. Wynder, Leonard A. Cohen, David P. Rose and **Steven D. Stellman** 227 Response: Response to Dr Walter Willett's dissent

Original Articles

Philip D. Ross, James W. Davis, Robert S. Epstein and **Richard D. Wasnich** 231 Pain and disability associated with new vertebral fractures and other spinal conditions

L. A. L. M. Kiemeney, A. L. M. Verbeek and J. C. van Houwelingen 241 Prognostic assessment from studies with non-randomized treatment assignment

Patrick S. Romano, Leslie L. Roos, Harold S. Luft, James G. Jollis, Katherine Doliszny and the **Ischemic Heart Disease Patient Outcomes Research Team** 249 A comparison of administrative versus clinical data: coronary artery bypass surgery as an example

Joseph C. Cappelleri and **William M. K. Trochim** 261 An illustrative statistical analysis of cutoff-based randomized clinical trials

Mark T. Richardson, Arthur S. Leon, David R. Jacobs Jr, Barbara E. Ainsworth and **Robert Serfass** 271 Comprehensive evaluation of the Minnesota Leisure Time Physical Activity Questionnaire

Andrew W. Gardner and **Eric T. Poehlman** 283 Leisure time physical activity is a significant predictor of body density in men

Stan Bennett 293 Blood pressure measurement error: its effect on cross-sectional and trend analyses

Letter to the Editors

P. N. Lee 303 Environmental tobacco smoke and heart disease

Stanton A. Glantz and **William W. Parmley** 304 Response

PHARMACOEPIDEMIOLOGY REPORTS

Editorial

John C. Bailar III — 305 Preliminary reports: when is the evidence strong enough to change practice?

Original Articles

R. D. Mann, Y. Lis, J. Chukwujindu and **D. O. Chanter** — 307 A study of the association between hormone replacement therapy, smoking and the occurrence of myocardial infarction in women

Colin R. Sharpe — 313 Smoking among oral contraceptive users in Quebec in 1987

Number 4

Variance and Dissent

Gio Batta Gori — 325 Presentation: Science, policy, and ethics: the case of environmental tobacco smoke

William Farland, Steven Bayard and **Jennifer Jinot** — 335 Dissent (A): Environmental tobacco smoke: a public health conspiracy? A dissenting view

Jennifer Jinot and **Steven Bayard** — 339 Dissent (B): Respiratory health effects of passive smoking: EPA's weight-of-evidence analysis

Gio Batta Gori — 351 Response: Reply to the preceding dissents

Commentary

Theodore Pincus and **Leigh F. Callahan** — 355 Associations of low formal education level and poor health status: behavioral, in addition to demographic and medical, explanations?

Original Articles

Lon White, Robert Katzman, Katalin Losonczy, Marcel Salive, Robert Wallace, Lisa Berkman, James Taylor, Gerda Fillenbaum and **Richard Havlik** — 363 Association of education with incidence of cognitive impairment in three established populations for epidemiologic studies of the elderly

Joel Coste, Olivia Judet, Olivier Barre, Jean-Rene Siaud, Andre Cohen de Lara and **Jean-Baptiste Paolaggi** — 375 Inter- and intraobserver variability in the interpretation of computed tomography of the lumbar spine

J. W. G. Yarnell, J. E. Pickering, P. C. Elwood, I. A. Baker, D. Bainton, C. Dawkins and **D. I. W. Phillips** — 383 Does non-diabetic hyperglycemia predict future IHD? Evidence from the Caerphilly and Speedwell studies

Marco Bobbio, Alberto Fubini, Robert Detrano, Adrian H. Shandling, Myrvin H. Ellestad, Jayne Clark, Oleh Brezden, Ana Abecia and **Diego Martinez-Caro** — 389 Diagnostic accuracy of predicting coronary artery disease related to patients' characteristics

Mohsen Janghorbani, Raymond B. Jones, W. Harper Gilmour, Anthony J. Hedley and **Motahareh Zhianpour** — 397 A prospective population based study of gender differential in mortality from cardiovascular disease and "all causes" in asymptomatic hyperglycaemics

A. F. de Bruin, J. P. M. Diederiks, L. P. de Witte, F. C. J. Stevens and **H. Philipsen** — 407 The development of a short generic version of the Sickness Impact Profile

P. Philippe — 419 Sartwell's incubation period model revisited in the light of dynamic modeling

P. Tubert-Bitter, B. Bégaud, Y. Moride and **L. Abenhaim** — 435 Sample size calculations for single group post-marketing cohort studies

Second Thoughts

Elena B. Sgarbossa and **Eric J. Topol** — 441 Semantic ambiguity, the "non-" nosology and myocardial infarction

Number 5

Original Articles

Wendy L. Stuhldreher, Dorothy J. Becker, Allan L. Drash, Demetrius Ellis, Lewis H. Kuller, Sidney K. Wolfson and **Trevor J. Orchard** — 447 The association of waist/hip ratio with diabetes complications in an adult IDDM population

Henry A. Feldman, Irwin Goldstein, Dimitrios G. Hatzichristou, Robert J. Krane and **John B. McKinlay** — 457 Construction of a surrogate variable for impotence in the Massachusetts Male Aging Study

Marianne Kirchhoff, Christian Torp-Pedersen, Kirsten Hougaard, Thomas Joen Jacobsen, Anette Sjøl, Michael Munch, Jens Tingleff, Torben Jørgensen, Marianne Schroll and **Margrethe Ege Olsen** — 469 Casual blood pressure in a general Danish population. Relation to age, sex, weight, height, diabetes, serum lipids and consumption of coffee, tobacco and alcohol

Anne Victoria Neale — 475 Racial and marital status influences on 10 year survival from breast cancer

Nain-Feng Chu, May Meei-Shyuan Lee, Dan-Jiang Wang, Li-Mei Chen, Yu-An Ding and **Shyh-Ming Shieh** — 485 The interrelationship between impaired glucose tolerance and other risk factors for cardiovascular disease: is it a predictor for cardiovascular disease?

J. Stevens, M. W. Plankey, J. E. Keil, P. F. Rust, H. A. Tyroler and **C. E. Davis** — 495 Black women have smaller abdominal girths than white women of the same relative weight

Robert E. Benton, Steven S. Coughlin and **Marieila C. Tefft** — 501 Predictors of coronary angiography in patients with idiopathic dilated cardiomyopathy: the Washington, DC Dilated Cardiomyopathy Study

M. Eliasson, P.-E. Evrin and **D. Lundblad** — 513 Fibrinogen and fibrinolytic variables in relation to anthropometry, lipids and blood pressure. The Northern Sweden MONICA Study

Gail E. McKeown-Eyssen, Elizabeth Bright-See, W. Robert Bruce, Varthouhi Jazmaji and **The Toronto Polyp Prevention Group** — 525 A randomized trial of a low fat high fibre diet in the recurrence of colorectal polyps

Christopher C. Whalen, Meghal Antani, John Carey and **C. Seth Landefeld** — 537 An index of symptoms for infection with human immunodeficiency virus: reliability and validity

Dale E. Gelskey, T. Kue Young and **Sharon M. Macdonald** — 547 Screening with total cholesterol: determining sensitivity and specificity of the National Cholesterol Education Program's guidelines from a population survey

Karen G. Raphael and **Marylene Cloitre** — 555 Does mood-congruence or causal search govern recall bias? A test of life event recall

Second Thoughts

Sjúrdur Fródi Olsen — 565 Further on the association between retarded foetal growth and adult cardiovascular disease. Could low intake of marine diets be a common cause?

Letter to the Editors

Hermann Brenner — 571 Visual presentation of analysis of test performance

Number 6

Editorial

Nathaniel I. Berlin — 573 The prevention of cancer—a sobering perspective

Original Articles

Peter Reizenstein,✠ Baruch Modan and **Lewis H. Kuller** — 575 The quandary of cancer prevention

Patricia M. Odell, Keaven M. Anderson and **William B. Kannel** — 583 New models for predicting cardiovascular events

K. S. Joseph 593 The evolution of clinical practice and time trends in drug effects

Nan Li, Jaakko Tuomilehto, Gary Dowse, Esa Virtala and **Paul Zimmet** 599 Prevalence of coronary heart disease indicated by electrocardiogram abnormalities and risk factors in developing countries

Louise-Anne McNutt, F. Bruce Coles, Timothy McAuliffe, Susan Baird, Dale L. Morse, David S. Strogatz, Roy C. Baron and **John L. Eadie** 613 Impact of regulation on benzodiazepine prescribing to a low income elderly population, New York State

Hermann Brenner and **Olaf Gefeller** 627 Chance-corrected measures of the validity of a binary diagnostic test

Daniëlle A. W. M. van der Windt, Ad F. Nagelkerke, Lex M. Bouter, Jeannette E. Dankert-Roelse and **Anjo J. P. Veerman** 635 Clinical scores for acute asthma in pre-school children. A review of the literature

Steven R. Hahn, Kenneth S. Thompson, Thomas A. Wills, Virginia Stern and **Nancy S. Budner** 647 The difficult doctor–patient relationship: somatization, personality and psychopathology

P. Palomäki, H. Miettinen, H. Mustaniemi, S. Lehto, K. Pyörälä, M. Mähönen and **J. Tuomilehto** 659 Diagnosis of acute myocardial infarction by MONICA and FINMONICA diagnostic criteria in comparison with hospital discharge diagnosis

Richard A. Reeves and **Erluo Chen** 667 Who wants to eliminate heart disease?

Stephen M. Haley, Colleen A. McHorney and **John E. Ware Jr** 671 Evaluation of the MOS SF-36 Physical Functioning Scale (PF-10): I. Unidimensionality and reproducibility of the Rasch Item Scale

Niklas Hammar, Flemming F. Larsen and **Ulf de Faire** 685 Are geographical differences and time trends in myocardial infarction incidence in Sweden real? Validity of hospital discharge diagnoses

Second Thoughts

Joseph Herman 695 Begging the question

Letters to the Editors

Ian White and **Yoav Ben-Shlomo** 697 Reinterpreting mortality statistics

Stuart Neilson and **Ian Robinson** 698 Response: Reinterpreting mortality statistics

Number 7

Variance and Dissent

Martha L. Slattery, Alan Dyer, David R. Jacobs Jr, Joan E. Hilner, Bette J. Caan, Diane E. Bild, Kiang Liu, Arline McDonald, Linda Van Horn and **M. Hardin** 701 Presentation: A comparison of two methods to ascertain dietary intake: the CARDIA Study

William D. DeWys 713 Dissent: How should nutrient intake be measured in epidemiologic research?

Martha L. Slattery, Alan Dyer, David R. Jacobs Jr, Joan E. Hilner, Bette J. Caan, Diane E. Bild, Kiang Liu, Arline McDonald, Linda Van Horn and **M. Hardin** 715 Response

Original Articles

Anita L. Stewart, Ron D. Hays, Kenneth B. Wells, William H. Rogers, Karen L. Spritzer and **Sheldon Greenfield** 719 Long-term functioning and well-being outcomes associated with physical activity and exercise in patients with chronic conditions in the Medical Outcomes Study

Moride Yola and **Abenhaim Lucien** 731 Evidence of the depletion of susceptibles effect in non-experimental pharmacoepidemiologic research

David K. Rassin, Kyriakos S. Markides, Tom Baranowski, C. Joan Richardson, William D. Mikrut and **David E. Beer**	739	Acculturation and the initiation of breastfeeding
Linda P. Fried, Walter H. Ettinger, Bonnie Lind, Anne B. Newman and **Julius Gardin for the Cardiovascular Health Study Research Group**	747	Physical disability in older adults: a physiological approach
John P. Anderson, Robert M. Kaplan and **Lawrence J. Schneiderman**	761	Effects of offering Advance Directives on quality adjusted life expectancy and psychological well-being among ill adults
Björn W. Karlson, Johan Herlitz and **Åke Hjalmarson**	773	Does a history of hypertension influence the prognosis among diabetics with acute chest pain?
Kuntoro, Ronald E. LaPorte and **Sati Mazumdar**	779	Approaches to quality control with an application to a new cancer registry in a developing country
C. David Naylor and **Hilary A. Llewellyn-Thomas**	787	Can there be a more patient-centred approach to determining clinically important effect sizes for randomized treatment trials?
Fu-Lin Wang, Karen M. Semchuk and **Edgar J. Love**	797	Reliability of environmental and occupational exposure data provided by surrogate respondents in a case–control study of Parkinson's disease
Walter H. Ettinger, Maradee A. Davis, John M. Neuhaus and **Kenneth P. Mallon**	809	Long-term physical functioning in persons with knee osteoarthritis from NHANES I: Effects of comorbid medical conditions
Second Thoughts		
E. Ernst	817	Criticizing the critics: is peer-reviewing fair?
Editorial Comments		
Walter O. Spitzer	819	Is peer-reviewing fair?
Jan P. Vandenbroucke	821	Can the quality of peer review be measured?
Letters to the Editors		
Richard F. Gillum	823	Relationship between hemoglobin and serum albumin
Tomoko Shimakawa and **Diane E. Bild**	824	Response

Number 8

Commentary		
Ernst L. Wynder	825	Investigator bias and interviewer bias: the problem of reporting systematic error in epidemiology
Original Articles		
Qingyi Wei, Genevieve M. Matanoski, Evan R. Farmer, Paul Strickland and **Lawrence Grossman**	829	Vitamin supplementation and reduced risk of basal cell carcinoma
Jennifer Potts and **David Simmons**	837	Sex and ethnic group differences in fat distribution in young United Kingdom South Asians and Europids
Heikki Luukinen, Keijo Koski, Liisa Hiltunen and **Sirkka-Liisa Kivelä**	843	Incidence rate of falls in an aged population in Northern Finland
Bart W. Koes, Maurits W. van Tulder, Daniëlle A. W. M. van der Windt and **Lex M. Bouter**	851	The efficacy of back schools: a review of randomized clinical trials
A. F. de Bruin, M. Buys, L. P. de Witte and **J. P. M. Diederiks**	863	The sickness impact profile: SIP68, a short generic version. First evaluation of the reliability and reproducibility
Emily White, Lawrence H. Kushi and **Margaret S. Pepe**	873	The effect of exposure variance and exposure measurement error on study sample size: implications for the design of epidemiologic studies
John C. Sinclair and **Michael B. Bracken**	881	Clinically useful measures of effect in binary analyses of randomized trials

Gregory P. Samsa, Joseph T. Hanlon, Kenneth E. Schmader, Morris Weinberger, Elizabeth C. Clipp, Kay M. Uttech, Ingrid K. Lewis, Pamela B. Landsman and Harvey J. Cohen — 891 A summated score for the Medication Appropriateness Index: development and assessment of clinimetric properties including content validity

Nancy Krieger, Robert A. Hiatt, Richard W. Sagebiel, Wallace H. Clark Jr and Martin C. Mihm Jr — 897 Inter-observer variability among pathologists' evaluation of malignant melanoma: effects upon an analytic study

Howard P. Greenwald, Nayak L. Polissar, Edgar F. Borgatta and Ruth McCorkle — 903 Detecting survival effects of socioeconomic status: problems in the use of aggregate measures

Richard F. Gillum and Michael E. Mussolino — 911 White blood cell count and hypertension incidence. The NHANES I Epidemiologic Follow-up Study

Michiel L. Bots, Paul G. H. Mulder, Albert Hofman, Gerrit-Anne van Es and Diederick E. Grobbee — 921 Reproducibility of carotid vessel wall thickness measurements. The Rotterdam Study

Jack E. Riggs and Eric J. Myers — 931 Defining the impact of prevention and improved management upon stroke mortality

Jürgen Berger and Ernst L. Wynder — 941 The correlation of epidemiological variables

Second Thoughts

Joan Seliger Sidney — 953 When there's "no cure"

John M. Starr, Gerry McGonigal, Brenda Thomas and Lawrence J. Whalley — 955 Vascular dementia—the legacy of Thomas Willis

Letters to the Editors

Hermann Brenner — 959 Design options of prospective epidemiologic studies

Andrew N. Phillips and George Davey Smith — 959 Response: Small numbers and poor measurements

Tsung O. Cheng — 960 Acronyms must be defined when first used

Number 9

Original Articles

Hiroyasu Iso, Yoshihiko Naito, Akihiko Kitamura, Shinichi Sato, Masahiko Kiyama, Yoshihiro Takayama, Minoru Iida, Takashi Shimamoto, Tomoko Sankai and Yoshio Komachi — 961 Serum total cholesterol and mortality in a Japanese population

Nobuyuki Hamajima, Kaoru Hirose, Manami Inoue, Toshiro Takezaki, Testuo Kuroishi and Kazuo Tajima — 971 Case–control studies: matched controls or all available controls?

Yoshitaka Tsubono, Akira Fukao, Shigeru Hisamichi, Toru Hosokawa and Nobuyuki Sugawara — 977 Accuracy of self-report for stomach cancer screening

R. Meinert, T. Frischer and J. Kuehr — 983 Assessing the effect of time-varying covariates in cross-sectional studies

Christopher Silagy, David Mant, Lucy Carpenter, John Muir and Andrew Neil — 993 Modelling different strategies to prevent coronary heart disease in primary care

Neil M. H. Graham, Lisa P. Jacobson, Victor Kuo, Joan S. Chmiel, Hal Morgenstern and Sharon L. Zucconi — 1003 Access to therapy in the Multicenter AIDS Cohort Study, 1989–1992

Michael V. Jelinek, Madeleine Owen Chow and John Santamaria — 1013 The low risk cardiac patient: an opportunity for cost containment

CE 47/12—K

Mara Julius, Calvin A. Lang, Lillian Gleiberman, Ernest Harburg, Wayne DiFranceisco and **Anthony Schork** — 1021 Glutathione and morbidity in a community-based sample of elderly

David J. Malenka, Dale McLerran, Noralou Roos, Elliott S. Fisher and **John E. Wennberg** — 1027 Using administrative data to describe casemix: a comparison with the medical record

Barry R. Davis and **Robert J. Hardy** — 1033 Data monitoring in clinical trials: the case for stochastic curtailment

Anne M. Gadomski, Thomas Permutt and **Bonita Stanton** — 1043 Correcting respiratory rate for the presence of fever

James S. Pankow, Paul G. McGovern, J. Michael Sprafka, David R. Jacobs Jr and **Henry Blackburn** — 1051 Trends in coded causes of death following definite myocardial infarction and the role of competing risks: the Minnesota Heart Survey (MHS)

W. A. Kukull, E. B. Larson, L. Teri, J. Bowen, W. McCormick and **M. L. Pfanschmidt** — 1061 The Mini-Mental State Examination score and the clinical diagnosis of dementia

Miquel Porta, Núria Malats, Josep L. Piñol, Juli Rifà, Montserrat Andreu and **Francisco X. Real** for the **PANKRAS I Project Investigators** — 1069 Diagnostic certainty and potential for misclassification in exocrine pancreatic cancer

Letters to the Editors

Nancy Wertheimer and **Ed Leeper** — 1081 Bias in studies of electromagnetic fields

Thomas L. Jones, C. H. Shih, David H. Thurston, Brendan J. Ware and **Philip Cole** — 1083 Response

Number 10

Original Articles

Olli T. Raitakari, Kimmo V. K. Porkka, Leena Räsänen, Tapani Rönnemaa and **Jorma S. A. Viikari** — 1085 Clustering and six year cluster-tracking of serum total cholesterol, HDL-cholesterol and diastolic blood pressure in children and young adults. The Cardiovascular Risk in Young Finns Study

Uwe Blecker, Sophie Lanciers, Bruno Hauser and **Yvan Vandenplas** — 1095 The prevalence of *Helicobacter pylori* positivity in a symptom-free population, aged 1 to 40 years

Jennifer K. Peat, William R. Unger and **Diana Combe** — 1099 Measuring changes in logarithmic data, with special reference to bronchial responsiveness

Raimo Isoaho, Hannu Puolijoki, Esko Huhti, Sirkka-Liisa Kivelä and **Eero Tala** — 1109 Prevalence of asthma in elderly Finns

Dorle Messerer, Albrecht Neiss, Mary M. Horowitz, Dieter Hoelzer and **Robert Peter Gale** — 1119 Comparison of chemotherapy and bone marrow transplants using two independent clinical databases

Steven T. Fleming and **Robert L. Blake Jr** — 1127 Patterns of comorbidity in elderly patients with multiple sclerosis

Harry Glauber and **Jonathan Brown** — 1133 Impact of cardiovascular disease on health care utilization in a defined diabetic population

Alison Thornton, Peter Lee and **John Fry** — 1143 Differences between smokers, ex-smokers, passive smokers and non-smokers

Evelyne F. Boumendil — 1163 Descriptive study of lipid-modulating drug use in a French professional population

Sara J. Brook and **Itzhak Brook** — 1173 Are public library books contaminated by bacteria?

Peter W. Choo, Joan H. Goldberg and **Richard Platt** — 1175 Ranitidine-associated autoimmune hemolytic anemia in a health maintenance organization population

Mark S. Eberhardt, Daniel T. Lackland, Frances C. Wheeler, Robert R. German and Steven M. Teutsch 1181 Is race related to glycemic control? An assessment of glycosylated hemoglobin in two South Carolina communities

Richard E. Johnson, Mark C. Hornbrook and Gregory A. Nichols 1191 Replicating the Chronic Disease Score (CDS) from automated pharmacy data

Letter to the Editors

L. Richard Salmi 1201 Statistics and antibiotics

PHARMACOEPIDEMIOLOGY REPORTS

B. H. Ch. Stricker, M. M. van der Klauw, J. P. Ottervanger and F. G. A. van der Meché 1203 A case–control study of drugs and other determinants as potential causes of Guillain-Barré syndrome

Brian L. Strom, Marcus M. Reidenberg, Bruce Freundlich and Rita Schinnar 1211 Breast silicone implants and risk of systemic lupus erythematosus

Number 11

Original Articles

Paul S. Heckerling, Marion S. Verp and Teresa A. Hadro 1215 Preferences of pregnant women for amniocentesis or chorionic villus sampling for prenatal testing: comparison of patients' choices and those of a decision-analytic model

Kathleen Waite, Eugene Oddone, Morris Weinberger, Gregory Samsa, Marjorie Foy and William Henderson 1229 Lack of association between patients' measured burden of disease and risk for hospital readmission

Ingimar Ö. Ingolfsson, Gunnar Sigurdsson, Helgi Sigvaldason, Gudmundur Thorgeirsson and Nikulas Sigfusson 1237 A marked decline in the prevalence and incidence of intermittent claudication in Icelandic men 1968–1986: a strong relationship to smoking and serum cholesterol—the Reykjavik Study

Mary Charlson, Ted P. Szatrowski, Janey Peterson and Jeffrey Gold 1245 Validation of a combined comorbidity index

Atsushi Hioki and Tsuneo Iguchi 1253 Factors affecting the incidence of death at home of residents of Hida district, Japan

Cinzia Sarti, Jaakko Tuomilehto, Juhani Sivenius, Esko Kaarsalo, Erkki V. Narva, Kalervo Salmi, Jorma Torppa and Veikko Salomaa 1259 Declining trends in incidence, case-fatality and mortality of stroke in three geographic areas of Finland during 1983–1989. Results from the FINMONICA stroke register

Ken Schmader, Linda K. George, Rebecca Newton and John D. Hamilton 1271 The accuracy of self-report of herpes zoster

Michael Borenstein 1277 Planning for precision in survival studies

Thomas K. Hillers, Gordon H. Guyatt, Neil Oldridge, Jean Crowe, Andrew Willan, Lauren Griffith and David Feeny 1287 Quality of life after myocardial infarction

Alessandro Ghirardini, Nicola Schinaia, Flavia Chiarotti, Raffaello De Biasi, Francesco Rodeghiero, Nancy Binkin and the GICC 1297 Epidemiology of hemophilia and of HIV infection in Italy

Ian D. Cameron, David M. Lyle and Susan Quine 1307 Cost effectiveness of accelerated rehabilitation after proximal femoral fracture

Sherryl M. May 1315 Modelling observer agreement—an alternative to kappa

Number 12

Variance and Dissent

F. R. Rosendaal 1325 Presentation: The emergence of a new species: the professional meta-analyst

Deborah J. Cook and **Gordon H. Guyatt** 1327 Dissent: The professional meta-analyst: an evolutionary advantage

F. R. Rosendaal 1331 Response

Original Articles

Dennis A. Revicki, Harris Allen, Kathleen Bungay, Gordon H. Williams and **Milton C. Weinstein** 1333 Responsiveness and calibration of the General Well-Being Adjustment Scale in patients with hypertension

G. H. de Bock, J. J. Houwing-Duistermaat, M. P. Springer, J. Kievit and **J. C. van Houwelingen** 1343 Sensitivity and specificity of diagnostic tests in acute maxillary sinusitis determined by maximum likelihood in the absence of an external standard

Dominique Laurier, Nguyen Phong Chau, Bernard Cazelles, Patrick Segond and **the PCV-METRA Group** 1353 Estimation of CHD risk in a French working population using a modified Framingham model

Jozé Braspenning and **Joseph Sergeant** 1365 General practitioners' decision making for mental health problems: outcomes and ecological validity

Juan Antonio Fernández-López, Johannes Siegrist, Radhamés Hernández-Mejía, Matthias Broer and **Antonio Cueto-Espinar** 1373 Study of quality of life on rural hypertensive patients. Comparison with the general population of the same environment

Marvin Bohnstedt, Patrick J. Fox, and **Neal D. Kohatsu** 1381 Correlates of Mini-Mental Status Examination scores among elderly demented patients: the influence of race–ethnicity

Mary Charlson, Janey Peterson, Ted P. Szatrowski, Ronald MacKenzie and **Jeffrey Gold** 1389 Long-term prognosis after peri-operative cardiac complications

The INCLEN Multicentre Collaborative Group 1401 Socio-economic status and risk factors for cardiovascular disease: a multicentre collaborative study in the International Clinical Epidemiology Network (INCLEN)

Eira Viikari-Juntura, Hilkka Riihimäki, Sakari Tola, Tapio Videman and **Pertti Mutanen** 1411 Neck trouble in machine operating, dynamic physical work and sedentary work: a prospective study on occupational and individual risk factors

Bo A. Salén, Erik V. Spangfort, Åke L. Nygren and **Rolf Nordemar** 1423 The Disability Rating Index: an instrument for the assessment of disability in clinical settings

William F. Page and **Adrian M. Ostfeld** 1437 Malnutrition and subsequent ischemic heart disease in former prisoners of war of World War II and the Korean Conflict

Robert E. Dales, Raymond Bélanger, Farid M. Shamji, Judith Leech, André Crépeau and **Harold J. Sachs** 1443 Quality-of-life following thoracotomy for lung cancer

Kenneth C. Chu, Barry A. Miller, Eric J. Feuer and **Benjamin F. Hankey** 1451 A method of partitioning cancer mortality trends by factors associated with diagnosis: an application to female breast cancer

Second Thoughts

Jack E. Riggs 1463 Age-specific mortality rate comparisons: is there a fallacy?

Letters to the Editors

Marianne Sullivan 1465 Cross-cultural validation for quality of life

Francis Guillemin, Claire Bombardier and **Dorcas Beaton** 1466 Response